

This listing of claims will replace all prior versions, and listings, of claims in our amendments or responses to Office actions.

Listing of Claims:

Claims 1-40 (cancelled)

Claim 41 (currently amended) ~~The cytokine complex of claim 31, wherein the cytokine complex comprises~~ An isolated soluble cytokine complex comprising the mature forms of SEQ ID NO: 2 and SEQ ID NO: 12.

Claim 42 (previously presented). The cytokine complex of claim 41, wherein the cytokine complex binds to a receptor complex comprising human CTNF-R, human gp130, and human LIF-R.

Claim 43 (previously presented). The cytokine complex of claim 41, wherein the cytokine complex is attached to at least one detection tag.

Claim 44 (previously presented). The cytokine complex of claim 43, wherein the detection tag is selected from the group consisting of FLAG, His6, and Ig domain.

Claim 45 (previously presented). A kit comprising the cytokine complex of Claim 41, wherein the kit contains:

- a) a compartment comprising the cytokine complex; and
- b) instructions for use or disposal of reagents in the kit.

Claims 46-47 (canceled)

Claim 48 (currently amended). The cytokine complex of claim 41, wherein the cytokine complex induces cholinergic neuromodulators ~~are~~ selected from the group

consisting of cholecystinin (CCK), vasoactive intestinal polypeptide (VIP), substance P (SP), and somatostatin (SOM).

Claim 49. (previously presented) A composition comprising the cytokine complex of claim 41 and an aqueous carrier.

Claim 50. (new) An isolated soluble cytokine fusion protein comprising a mature form of SEQ ID NO: 2 fused to a mature form of SEQ ID NO: 12.

Claim 51. (new) The cytokine fusion protein of claim 50, wherein the cytokine complex binds to a receptor complex comprising human CTNF-R, human gp130, and human LIF-R.

Claim 52. (new) The cytokine fusion protein of claim 50, wherein the cytokine complex is attached to at least one detection tag.

Claim 53. (new) The cytokine fusion protein of claim 52, wherein the detection tag is selected from the group consisting of FLAG, His6, and Ig domain.

Claim 54. (new) A kit comprising the cytokine fusion protein of Claim 50, wherein the kit contains:

- a) a compartment comprising the cytokine fusion protein; and
- b) instructions for use or disposal of reagents in the kit.

Claim 55. (new) A composition comprising the cytokine fusion protein of claim 50 and an aqueous carrier.

Claim 56 (new). The cytokine complex of claim 50, wherein the cytokine fusion protein induces neuromodulators selected from the group consisting of cholecystinin (CCK), vasoactive intestinal polypeptide (VIP), substance P (SP), and somatostatin (SOM).

Claim 57 (new) An isolated soluble cytokine complex comprising a fragment of a mature form of SEQ ID NO: 2 and a mature form of SEQ ID NO: 12, wherein:

 a) the fragment of SEQ ID NO: 2 is selected from the group consisting of helix A, helix B, helix C, and helix D; and

 b) the cytokine complex binds to a receptor complex comprising CNTF-R, gp130, and LIF-R.

Claim 58. (new) The cytokine complex of claim 57, wherein the cytokine complex is attached to at least one detection tag.

Claim 59. (new) The cytokine complex of claim 58, wherein the detection tag is selected from the group consisting of FLAG, His6, and Ig domain.

Claim 60. (new) A kit comprising the cytokine complex of Claim 57, wherein the kit contains:

 a) a compartment comprising the cytokine complex; and

 b) instructions for use or disposal of reagents in the kit.

Claim 61. (new) A composition comprising the cytokine complex of claim 57 and an aqueous carrier.

Claim 62 (new). The cytokine complex of claim 57, wherein the cytokine complex induces neuromodulators selected from the group consisting of cholecystokinin (CCK), vasoactive intestinal polypeptide (VIP), substance P (SP), and somatostatin (SOM).